State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-9-36
Relating to Certification of New Off-Road Compression-Ignition Engines

MITSUBISHI MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment:

Model Year: 2002

Typical Equipment Usage: Crane, Pump, Generator and Other Industrial Equipment

Fuel Type: Diesel

Engine Family	Engine Displacement (liters)	Useful Life (hours)	Emission Control Systems and Special Features
2MTXL07.5D6C	7.5	8000	Direct Diesel Injection Turbocharger

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) (units are expressed in grams per kilowatt-hour (g/kw-hr)), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

Engine Power Rating (kw)	Emission Standard Category		Exhaust Emissions (g/kw-hr)					Smoke Opacity (%)		
			HC	NOx	NMHC+NOx	CO	PM	Accel	Lug	Peak
130≤KW<225	Tier 1	Standard	1.3	9.2	N/A	11.4	0.54	20	15	50
		Certification	0.4	9.0	--	0.8	0.24	17	4	34

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels— 1996 and Later Off-Road Compression-Ignition Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Sections 2425 and 2426).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 5th day of April 2001.

R. B. Summerfield, Chief
Mobile Source Operations Division

ATTACHMENT

LARGE ENGINE MODEL SUMMARY

3/1/01

Manufacturer: **Mitsubishi Motors Corporation**

Process Code: **New Submission**

U-R-9-36

EPA Engine Family: **2MTXL07.5D6C**

Manufacturer Family Name: **N/A**

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SAE Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6D16TEA-US02	6D16-TEA	184 @ 1800	109	65.0	582 @ 1500	119	58.9	DDI,EM,TC
6D16TEB-US02	6D16-TEB	178 @ 2200	89	64.8	485 @ 1600	96	51.2	DDI,EM,TC
6D16TEC-US02	6D16-TEC	212 @ 2800	94	87.3	514 @ 1600	106	56.1	DDI,EM,TC
6D16TED-US02	6D16-TED	209 @ 2700	93	84.7	514 @ 1600	106	56.1	DDI,EM,TC
6D16TEE-US02	6D16-TEE	212 @ 2800	94	87.3	514 @ 1600	106	56.1	DDI,EM,TC
6D16TEF-US02	6D16-TEF	212 @ 2800	94	87.3	514 @ 1600	106	56.1	DDI,EM,TC